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INDEX TO WIRELESS ENGINEER
ABSTRACTS AND REFERENCES

VOL. 32. 1955

This index to the Abstracts and References, published monthly in "Wireless Engineer" during 1955, is compiled on the same plan as for 1954, there being both Author and Subject Indexes. A list of the principal journals scanned for abstracting is included with the publishers' addresses.

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SYMBOLS (A) Abstract, (B) Book Review, (C) Note of Correction, (D) Discussion

AUTHOR INDEX A name followed by "and" is that of the first author of a jointly written paper, while the word "with" indicates that the name indexed is that of the second author.

Abbreviations used in the Abstracts and Index

a.c.	=	alternating current	c.w.	=	continuous wave
d.c.	=	direct current	i.c.w. }	=	modulated c.w.
h.v.	=	high voltage	m.c.w. }		
l.v.	=	low voltage	s.w.*	=	short wave
a.f.	=	audio frequency	u.s.w.*	=	ultra short wave
i.f.	=	intermediate frequency	λ	=	wavelength
r.f.	=	radio frequency, including:—	c.r.	=	cathode ray
v.l.f.	=	very low frequency, <30 kc/s	c.r.o.	=	cathode ray oscilloscope
l.f.	=	low frequency, 30–300 kc/s	d.f.	=	direction finding
m.f.	=	medium frequency, 300–3000 kc/s	e.m.	=	electromagnetic, *but*
h.f.	=	high frequency, 3–30 Mc/s	e.m.f.	=	electromotive force
v.h.f.	=	very high frequency, 30–300 Mc/s	a.f.c.	=	automatic frequency control
u.h.f.	=	ultra high frequency, >300 Mc/s	a.g.c.	=	automatic gain control
a.m.	=	amplitude modulation	a.ph.c.	=	automatic phase control
f.m.	=	frequency modulation	a.v.c.	=	automatic volume control
p.m.	=	pulse modulation, including:—	m.u.f.	=	maximum usable frequency
p.a.m.	=	pulse amplitude modulation	p.p.i.	=	plan position indicator
p.c.m.	=	pulse code modulation	s.s.b.	=	single sideband
p.f.m.	=	pulse frequency modulation	d.s.b.	=	double sideband
p.ph.m.	=	pulse phase modulation	s.w.r.	=	standing wave ratio
p.p.m.	=	pulse position modulation	v.f.o.	=	variable frequency oscillator
p.w.m.	=	pulse width modulation	R/T	=	radiotelephony
ph.m.	=	phase modulation	W/T	=	wireless telegraphy
v.m.	=	velocity modulation	TV	=	television

* No clearly defined limits

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LIST OF JOURNALS

A selection of the journals which are regularly scanned is given below, together with the addresses of their publishers or editorial offices and the abbreviations of their titles as used in the Abstracts and References. Applications for copies of any journal should be made to the addresses given.

The full title of each journal is given in bold type and is followed by the address, the abbreviated title being shown within brackets. In a few cases the nature of a journal is indicated, where neither the title nor the address shows it clearly.

Acta physica austriaca, Springer Verlag, Wien I, Mölkerbastei 5, Austria. (*Acta phys. austriaca*)

Acta Polytechnica, Royal Swedish Academy of Engineering Sciences, Stockholm, Sweden. (*Acta polyt., Stockholm*)

Acustica, S. Hirzel Verlag, Stauffacherquai 40, Zürich 4, Switzerland. (*Acustica*)

Advances in Physics, Taylor & Francis Ltd, Red Lion Court, Fleet Street, London, E.C.4, England. (*Advances Phys.*)

Akusticheski Zhurnal, Moscow B-64, Podsosenskii per., 21, U.S.S.R. (*Akust. Zh.*)

Akustische Beihefte, S. Hirzel Verlag, Stauffacherquai 40, Zürich 4, Switzerland. (*Akust. Beihefte*)

Alta Frequenza, Associazione Elettrotecnica Italiana, Milano (202), Via S. Paolo 10, Italy. (*Alta Frequenza*)

Annalen der Physik, J. A. Barth, Leipzig C 1, Salomonstrasse 18B, Germany. (*Ann. Phys., Lpz.*)

Annales de Géophysique, Service des Publications du C.N.R.S., 45 rue d'Ulm, Paris 5e, France. (*Ann. Géophys.*)

Annales de Physique, Masson & Cie, 120 Boulevard Saint-Germain, Paris 6e, France. (*Ann. Phys., Paris*)

Annales de Radioélectricité, 10 rue Carducci, Paris 19e, France. (*Ann. Radioélect.*)

Annales des Télécommunications, 3 & 5 Boulevard Pasteur, Paris 15e, France. (*Ann. Télécommun.*)

Annali di Geofisica, Istituto Nazionale di Geofisica, Città universitaria, Roma, Italy. (*Ann. Geofis.*)

Applied Scientific Research, Martinus Nijhoff, Lange Voorhout 9, The Hague, Netherlands. (*Appl. sci. Res.*)

Archiv der elektrischen Übertragung, S. Hirzel Verlag, Stuttgart, Germany. (*Arch. elekt. Übertragung*)

Archiv für Elektrotechnik, Springer Verlag, Berlin W35, Reichpietschufer 20, Germany. (*Arch. Elektrotech.*)

Archiv für Meteorologie Geophysik und Bioklimatologie, Series A, Springer Verlag, Wien I, Mölkerbastei 5, Austria. (*Arch. Met., Wien*)

Archiv für technisches Messen, R. Oldenbourg Verlag, München, Lotzbeckstrasse 2b, Germany. (*Arch. tech. Messen*)

Arkiv för Fysik, published for Royal Swedish Academy of Sciences by Almqvist & Wiksells Boktryckeri A. B., Stockholm, Sweden. (*Ark. Fys.*)

A.T.E. Journal, (incorporating Strowger Journal), Automatic Telephone & Electric Co., Strowger Works, Liverpool 7, England. (*A.T.E. J.*)

Audio, 204 Front Street, Mineola, N.Y., U.S.A. (*Audio*)

Australian Journal of Applied Science, Commonwealth Scientific and Industrial Research Organization, 314 Albert Street, East Melbourne C.2, Australia. (*Aust. J. appl. Sci.*)

Australian Journal of Physics, Commonwealth Scientific and Industrial Research Organization, 314 Albert Street, East Melbourne C.2, Australia. (*Aust. J. Phys.*)

Avtomatika i Telemekhanika, Moscow, Leningradskoe Shosse, 9, U.S.S.R. (*Avtomatika i Telemekhanika*)

A.W.A. Technical Review, Amalgamated Wireless (Australasia) Ltd, Sydney, Australia. (*A.W.A. tech. Rev.*)

B.B.C. Engineering Division Monographs, British Broadcasting Corporation, 35 Marylebone High Street, London, W.1, England. (*B.B.C. Engng Div. Monographs*)

Beama Journal, British Electrical and Allied Manufacturers' Association, 36 Kingsway, London, W.C.2, England. (*Beama J.*)

Bell Laboratories Record, 463 West Street, New York 14, N.Y., U.S.A. (*Bell Lab. Rec.*)

Bell System Technical Journal, American Telephone and Telegraph Company, 195 Broadway, New York 7, N.Y., U.S.A. (*Bell Syst. tech. J.*)

British Journal of Applied Physics, 47 Belgrave Square, London, S.W.1, England. (*Brit. J. appl. Phys.*)

Brown Boveri Review, Baden, Switzerland. (*Brown Boveri Rev.*)

Bulletin de l'Académie des Sciences de l'U.R.S.S., (*a*) série physique, (*b*) série géophysique, (*c*) classe sciences techniques (in Russian), Academy of Sciences, Moscow, U.S.S.R. (*Bull. Acad. Sci. U.R.S.S., (a) sér. phys., (b) sér. géophys., (c) tech. Sci.*)

Bulletin de l'Association suisse des Électriciens, Seefeldstrasse 301, Zürich 8, Switzerland. (*Bull. schweiz. elektrotech. Ver.*)

Bulletin de la Société française des Électriciens, 8–14 Avenue Pierre-Larousse, Malakoff (Seine), France. (*Bull. Soc. franç. Elect.*)

Câbles & Transmission, Sotelec, 16 rue de la Baume, Paris 8e, France. (*Câbles & Transm.*)

Cahiers de Physique, 165 Rue de Sèvres, Paris 15e, France. (*Cah. Phys.*)

Canadian Journal of Physics, National Research Council, Ottawa 2, Canada. (*Canad. J. Phys.*)

Canadian Journal of Technology, (as for Canadian Journal of Physics). (*Canad. J. Technol.*)

Chalmers tekniska Högskolas Handlingar, N. J. Gumperts Förlag, Göteborg, Sweden. (*Chalmers tek. Högsk. Handl.*)

Communication News, Philips Telecommunications Industries, Hilversum, Netherlands. (*Commun. News*)

Communications on Pure and Applied Mathematics, Interscience Publishers Inc., 250 Fifth Avenue, New York 1, N.Y., U.S.A. (*Commun. pure appl. Math.*)

Comptes Rendus Hebdomadaires des Séances de l'Académie des Sciences, Gauthier-Villars, 55 Quai des Grands-Augustins, Paris 6e, France. (*C. R. Acad. Sci., Paris*)

Comptes Rendus (Doklady) de l'Académie des Sciences de l'U.R.S.S., (in Russian), Moscow B-64, Podsosenskii per., 21, U.S.S.R. (*C. R. Acad. Sci. U.R.S.S.*)

Electrical Communication, International Telephone and Telegraph Corporation, 67 Broad Street, New York 4, N.Y., U.S.A. (*Elect. Commun.*)

Electrical Engineering, Journal of the American Institute of Electrical Engineers, 500 Fifth Avenue, New York 36, N.Y., U.S.A. (*Elect. Engng, N.Y.*)

Electrical Journal, Bouverie House, 154 Fleet Street, London, E.C.4, England. (*Elect. J.*)

Electrical Manufacturing, 1250 Sixth Avenue, New York 20, N.Y., U.S.A. (*Elect. Mfg*)

Electrical Review, Dorset House, Stamford Street, London, S.E.1, England. (*Elect. Rev., Lond.*)

Electrical Times, Sardinia House, Sardinia Street, London, W.C.2, England. (*Elect. Times*)

Electronic Engineering, 28 Essex Street, London, W.C.2, England. (*Electronic Engng*)

Electronics, 99–129 North Broadway, Albany 1, N.Y., U.S.A. (*Electronics*)

Elektronische Rundschau, (formerly Funk und Ton), Verlag für Radio-Foto-Kinotechnik G.m.b.H., Berlin-Borsigwalde, Eichborndamm 141–167, Germany. (*Elektronische Rundschau*)

Elektrotechnik und Maschinenbau, Journal of the Electrotechnischer Verein Österreichs, Springer Verlag, Wien I, Mölkerbastei 5, Austria. (*Elektrotech. u. Maschinenb.*)

Elektrotechnische Zeitschrift, Edition A & B, VDE-Verlag, Wuppertal-Elberfeld, Brillerstrasse 99, Germany. (*Elektrotech. Z.*)

Endeavour, Imperial Chemical Industries, North Block, Thames House, Millbank, London, S.W.1. (*Endeavour*)

Engineer, 28 Essex Street, London, W.C.2, England. (*Engineer, Lond.*)

Engineering, 35 & 36 Bedford Street, London, W.C.2, England. (*Engineering, Lond.*)

Ericsson Review, Telefonaktiebolaget L. M. Ericsson, Stockholm 32, Sweden. (*Ericsson Rev.*)

Ericsson Technics, (as for Ericsson Review). (*Ericsson Tech.*)

Fernmeldetechnische Zeitschrift, Vieweg & Sohn, Braunschweig, Burgplatz 1, Germany. (*Fernmeldetech. Z.*)

Frequenz, Verlag Schiele & Schön, Berlin S.W.29, Boppstrasse 10, Germany. (*Frequenz*)

Funk und Ton. See Elektronische Rundschau.

Funk-Technik, Verlag für Radio-Foto-Kinotechnik G.m.b.H., Berlin-Borsigwalde, Eichborndamm 141–167, Germany. (*Funk-Technik, Berlin*)

G.E.C. Journal, General Electric Company Ltd, Magnet House, Kingsway, London, W.C.2, England. (*G.E.C. J.*)

G.E.C. Telecommunications, General Electric Company Ltd, Coventry, England. (*G.E.C. Telecommun.*)

General Electric Review, General Electric Company, 1 River Road, Schenectady 5, N.Y., U.S.A. (*Gen. Elect. Rev.*)

General Radio Experimenter, General Radio Company, 275 Massachusetts Avenue, Cambridge 39, Mass., U.S.A. (*Gen. Radio Exp.*)

Helvetica Physica Acta, Journal of the Société suisse de Physique, Editions Birkhäuser, Bâle 10, Switzerland. (*Helv. phys. Acta*)

Hochfrequenztechnik und Elektroakustik, Akademische Verlagsgesellschaft Geest & Portig K.-G., Leipzig C1, Sternwartenstr. 8. (*Hochfrequenztech. u. Elektroakust.*)

Indian Journal of Physics, (and Proceedings of the Indian Association for the Cultivation of Science), 210 Bowbazer Street, Calcutta, India. (*Indian J. Phys.*)

Journal of the Acoustical Society of America, American Institute of Physics, 57 East 55th Street, New York 22, N.Y., U.S.A. (*J. acoust. Soc. Amer.*)

Journal of Applied Physics, American Institute of Physics, 57 East 55th Street, New York 22, N.Y., U.S.A. (*J. appl. Phys.*)

Journal of Atmospheric and Terrestrial Physics, Pergamon Press Ltd, 4 & 5 Fitzroy Square, London, W.1. (*J. atmos. terr. Phys.*)

Journal of the Audio Engineering Society, P.O. Box 12, Old Chelsea Station, New York 11, N.Y., U.S.A. (*J. audio Engng Soc.*)

Journal of the British Institution of Radio Engineers, 9 Bedford Square, London, W.C.1, England. (*J. Brit. Instn Radio Engrs*)

Journal of the Electrochemical Society, Mount Royal and Guilford Aves, Baltimore 2, Md, U.S.A. (*J. electrochem. Soc.*)

Journal of Electronics, Taylor and Francis Ltd, Red Lion Court, Fleet Street, London, E.C.4, England. (*J. Electronics*)

Journal of the Franklin Institute, Benjamin Franklin Parkway at Twentieth Street, Philadelphia 3, Pa, U.S.A. (*J. Franklin Inst.*)

Journal of Geomagnetism and Geoelectricity, Society of Terrestrial Magnetism and Electricity of Japan, Geophysical Institute, Kyoto University, Kyoto, Japan. (*J. Geomag. Geoelect.*)

Journal of Geophysical Research, 5241 Broad Branch Road, N.W., Washington 15, D.C., U.S.A. (*J. geophys. Res.*)

Journal of the Indian Institute of Science, Indian Institute of Science, Bangalore 3, India. (*J. Indian Inst. Sci.*)

Journal of the Institute of Navigation, John Murray Ltd, 50 Aibemarle Street, London, W.1, England. (*J. Inst. Nav.*)

Journal of Mathematics and Physics, Massachusetts Institute of Technology, Cambridge 39, Mass., U.S.A. (*J. Math. Phys.*)

Journal of the Optical Society of America, American Institute of Physics, 57 East 55th Street, New York 22, N.Y., U.S.A. (*J. opt. Soc. Amer.*)

Journal of the Physical Society of Japan, Maruzen Publishing Co., P.O. Box 605 Central, Tokyo, Japan. (*J. phys. Soc. Japan*)

Journal de Physique et le Radium, 12 place Henri-Bergson, Paris 8e, France. (*J. Phys. Radium*)

Journal of the Radio Research Laboratories, Ministry of Postal Services, Tokyo, Japan. (*J. Radio Res. Labs, Japan.*)

Journal of Research of the National Bureau of Standards, U.S. Government Printing Office, Washington 25, D.C., U.S.A. (*J. Res. nat. Bur. Stand.*)

Journal of Scientific Instruments, 47 Belgrave Square, London, S.W.1, England. (*J. sci. Instrum.*)

Journal of the Society of Motion Picture and Television Engineers, 40 West 40th Street, New York 18, N.Y., U.S.A. (*J. Soc. Mot. Pict. Telev. Engrs*)

Journal of the Television Society, 164 Shaftesbury Avenue, London, W.C.2, England. (*J. Telev. Soc.*)

Marconi Review, Marconi House, Chelmsford, England. (*Marconi Rev.*)

Materials and Methods, Reinhold Publishing Corporation, 430 Park Avenue, New York 22, N.Y., U.S.A. (*Mater. & Meth.*)

Metal Industry, Louis Cassier Company Ltd, Dorset House, Stamford Street, London, S.E.1, England. (*Metal Ind., Lond.*)

Metallurgia, 31 King Street West, Manchester 3, England. (*Metallurgia, Manchr*)

Meteorological Magazine, Her Majesty's Stationery Office, York House, Kingsway, London, W.C.2, England. (*Met. Mag. Lond.*)

Microtecnic, 23 Avenue de la Gare, Lausanne, Switzerland. (*Microtecnic*)

Modern Plastics, 575 Madison Avenue, New York 22, N.Y., U.S.A. (*Mod. Plast.*)

Monthly Notices of the Royal Astronomical Society, Burlington House, London, W.1, England. (*Mon. Not. R. astr. Soc.*)

Nachrichten Technik, V.E.B. Verlag Technik, Berlin N.W.7, Unter den Linden 12, Germany. (*NachrTech.*)

Nachrichtentechnische Zeitschrift, (formerly Fernmeldetechnische Zeitschrift), Vieweg & Sohn, Braunschweig, Burgplatz 1, Germany. (*Nachrichtentech. Z.*)

Nature, Macmillan & Co. Ltd, St. Martin's Street, London, W.C.2, England. (*Nature, Lond.*)

Naturwissenschaften, Springer Verlag, Heidelberg, Neuenheimer Landstrasse 24, Germany. (*Naturwissenschaften*)

Nucleonics, 330 West 42nd Street, New York 36, N.Y., U.S.A. (*Nucleonics*)

Nuovo Cimento, Editore Nicola Zanichelli, Bologna, Via Irnerio 34, Italy. (*Nuovo Cim.*)

Observatory, Royal Observatory, Herstmonceux Castle, Hailsham, Sussex, England. (*Observatory*)

Onde électrique, 40 rue de Seine, Paris 6e, France. (*Onde élect.*)

Optik, Wissenschaftliche Verlagsgesellschaft m.b.H., Stuttgart 1, Postfach 40, Germany. (*Optik, Stuttgart*)

Österreichische Zeitschrift für Telegraphen- Telephon- Funk- und Fernsehtechnik, Springer Verlag, Wien 1, Molkerbastei 5, Austria. (*Öst. Z. Teleph. Telegr. Funk Fernsehtech.*)

Philips Research Reports, N.V. Philips Gloeilampenfabrieken, Eindhoven, Netherlands. (*Philips Res. Rep.*)

Philips Technical Review, (as for Philips Research Reports). (*Philips tech. Rev.*)

Philosophical Magazine, Taylor and Francis Ltd, Red Lion Court, Fleet Street, London, E.C.4, England. (*Phil. Mag.*)

Philosophical Transactions of the Royal Society, Burlington House, Piccadilly, London, W.1, England. (*Phil. Trans.*)

Physica, Journal of the Dutch Physical Society, Bijlhouwerstraat 6, Utrecht, Netherlands. (*Physica*)

Physical Review, American Institute of Physics, 57 East 55th Street, New York 22, N.Y., U.S.A. (*Phys. Rev.*)

Post Office Electrical Engineers' Journal, Engineer-in-Chief's Office, Alder House, Aldersgate Street, London, E.C.1, England. (*P.O. elect. Engrs' J.*)

Poste e Telecomunicazioni, Ministero P.T., Viale Trastevere 189, Roma, Italy. (*Poste e Telecomunicazioni*)

Proceedings of the Cambridge Philosophical Society, Cambridge University Press, Bentley House, London, N.W.1, England. (*Proc. Camb. phil. Soc.*)

Proceedings of the Institute of Radio Engineers, 1 East 79th Street, New York 21, N.Y., U.S.A. (*Proc. Inst. Radio Engrs*)

Proceedings of the Institution of Electrical Engineers, Parts A, B and C, Savoy Place, London, W.C.2, England. (*Proc. Instn elect. Engrs*)

Proceedings of the Institution of Radio Engineers, Australia, Science House, Gloucester Street, Sydney, N.S.W., Australia. (*Proc. Instn Radio Engrs Aust.*)

Proceedings of the National Electronics Conference, 84 East Randolph Street, Chicago, Illinois, U.S.A. (*Proc. nat. Electronics Conf., Chicago*)

Proceedings of the Physical Society, 1 Lowther Gardens, Prince Consort Road, London, S.W.7, England. (*Proc. phys. Soc.*)

Proceedings of the Radio Club of America, 11 West 42nd Street, New York, N.Y., U.S.A. (*Proc. Radio Cl. Amer.*)

Proceedings of the Royal Society, Burlington House, Piccadilly, London, W.1, England. (*Proc. roy. Soc.*)

QST, American Radio Relay League Inc., 38 La Salle Road, West Hartford 7, Conn., U.S.A. (*QST*)

Quarterly of Applied Mathematics, Brown University, Providence 12, R.I., U.S.A. (*Quart. appl. Math.*)

Quarterly Journal of Mathematics, Oxford University Press, Amen House, London, E.C.4, England. (*Quart. J. Math.*)

Quarterly Journal of Mechanics and Applied Mathematics, Oxford University Press, Amen House, London, E.C.4, England. (*Quart. J. Mech. appl. Math.*)

Quarterly Journal of the Royal Meteorological Society, 49 Cromwell Road, London, S.W.7. (*Quart. J. R. met. Soc.*)

Radio, Izdatel'stvo DOSAAF, Moscow, Novo-Ryazanskaya ul., 26, U.S.S.R. (*Radio, Moscow*)

Radio-Electronic Engineering, (including Communication Engineering and TV and Radio Engineering), Ziff-Davis Publishing Company, 366 Madison Avenue, New York 17, N.Y., U.S.A. (*Radio-Electronic Engng*)

Radio Technik, Wien VI, Mariahilferstrasse 71, Austria. (*Radio Tech., Vienna*)

Radio & Television News, Ziff-Davis Publishing Company, 366 Madison Avenue, New York 17, N.Y., U.S.A. (*Radio & Telev. News*)

Radiotekhnika, Moscow, Chistoprudnyi Bulvar, 2, U.S.S.R. (*Radiotekhnika, Moscow*)

RCA Review, RCA Laboratories Division, Princeton, N.J., U.S.A. (*RCA Rev.*)

Referativnyi Zhurnal, Fizika, Moscow, D-119, Baltiiskii pos., 42 B, U.S.S.R. (*Referativnyi Zh., Fiz.*)

Rendiconti della Accademia Nazionale dei Lincei, Via della Lungara 10, Roma, Italy. (*R.C. Accad. naz. Lincei*)

Report on Ionosphere Research in Japan, Maruzen Publishing Co., P.O. Box 605 Central, Tokyo, Japan. (*Rep. Ionosphere Res. Japan*)

Reports of the Electrical Communication Laboratory, Nippon Telegraph and Telephone Public Corporation, 1551 Kichijoji, Musashino-shi, Tokyo, Japan. (*Rep. elect. Commun. Lab., Japan*)

Reports on Progress in Physics, The Physical Society, 1 Lowther Gardens, Prince Consort Road, London, S.W.7, England. (*Rep. Progr. Phys.*)

Research, Butterworth's Scientific Publications Ltd, 88 Kingsway, London, W.C.2, England. (*Research, Lond.*)

Review of Scientific Instruments, American Institute of Physics, 57 East 55th Street, New York 22, N.Y., U.S.A. (*Rev. sci. Instrum.*)

Reviews of Modern Physics, American Institute of Physics, 57 East 55th Street, New York 22, N.Y., U.S.A. (*Rev. mod. Phys.*)

Revista de Telecomunicación, Palacio de Comunicaciones, Madrid, Spain. (*Rev. Telecomunicación, Madrid*)

Revista Telegrafica Electronica, Arbó Editores, Buenos Aires, Argentina. (*Rev. telegr. Electronica, Buenos Aires*)

Revue générale de l'Électricité, 12 place Henri Bergson, Paris 8e, France. (*Rev. gén. Élect.*)

Revue HF, 55 rue Defacqz, Brussels, Belgium. (*Rev. HF, Brussels*)

Revue d'Optique, 3 & 5 Boulevard Pasteur, Paris 15e, France. (*Rev. d'Optique*)

Revue scientifique, 4 rue Pomereu, Paris 16e, France. (*Rev sci., Paris*)

Ricerca scientifica, Roma, Piazza della Libertà 10, Italy. (*Ricerca sci.*)

R.S.G.B. Bulletin, New Ruskin House, Little Russell Street, London, W.C.1, England. (*R.S.G.B. Bull.*)

Schweizer Archiv für angewandte Wissenschaft und Technik, Buchdruckerei Vogt-Schild AG, Solothurn, Switzerland. (*Schweiz. Arch. angew. Wiss. Tech.*)

Science Reports of the Research Institutes Tohoku University, Tohoku University, Sendai, Japan. (*Sci. Rep. Res. Inst. Tohoku Univ.*)

Scientific Monthly, 10 McGovern Avenue, Lancaster, Pa, U.S.A. (*Sci. Mon.*)

Sylvania Technologist, Sylvania Electric Products Inc., 1740 Broadway, New York 19, N.Y., U.S.A. (*Sylvania Technologist*)

Technical News Bulletin of the National Bureau of Standards, U.S. Government Printing Office, Washington 25, D.C., U.S.A. (*Tech. News Bull. nat. Bur. Stand.*)

Technische Hausmitteilungen des Nordwestdeutschen Rundfunks, H. H. Nölke Verlag, Hamburg 20, Hegestrasse 40, Germany. (*Tech. Hausmitt. NordwDtsch. Rdfunks*)

Technische Mitteilungen, Journal of the Swiss Post Office, Direction générale PTT, Berne, Speichergasse 6, Switzerland. (*Tech. Mitt. schweiz. Telegr.-TelephVerw.*)

Tele-Tech & Electronic Industries, Caldwell-Clements Inc., 480 Lexington Avenue, New York 17, N.Y., U.S.A. (*Tele-Tech*)

Telefunken Zeitung, Telefunken G.m.b.H., Berlin S.W.61, Mehringdamm 32–34, Germany. (*Telefunken Ztg*)

Télévision, 9 rue Jacob, Paris 6e, France. (*Télévision*)

Tellus, Lindhagensgatan 124, Stockholm, Sweden. (*Tellus*)

Tijdschrift van het Nederlands Radiogenootschap, Jagtlustlaan 9, Santpoort-Station, Netherlands. (*Tijdschr. ned. Radiogenoot.*)

Toute la Radio, 9 rue Jacob, Paris 6e, France. (*Toute la Radio*)

Transactions of the American Geophysical Union, 1530 P Street, N.W., Washington 5, D.C., U.S.A. (*Trans. Amer. geophys. Union*)

Transactions of the American Institute of Electrical Engineers, 500 Fifth Avenue, New York 36, N.Y., U.S.A. (*Trans. Amer. Inst. elect. Engrs*)

Transactions of the Institute of Radio Engineers, 1 East 79th Street, New York 21, N.Y., U.S.A. (*Trans. Inst. Radio Engrs*)

TSF et TV, 40 rue de Seine, Paris 6e, France. (*TSF et TV*)

Uspekhi Fizicheskikh Nauk, Moscow, B-71, B. Kaluzhskaya 15 (Gostekhizdat), U.S.S.R. (*Uspekhi fiz. Nauk*)

Le Vide, Journal of the Société française des Ingénieurs Techniciens du Vide, 44 rue de Rennes, Paris 6e, France. (*Le Vide*)

Weather, 49 Cromwell Road, London, S.W.7, England. (*Weather*)

Wireless Engineer, Dorset House, Stamford Street, London S.E.1, England. (*Wireless Engr*)

Wireless World, (as for Wireless Engineer). (*Wireless World*)

Zeitschrift für angewandte Mathematik und Physik, Editions Birkhäuser, Bâle 10, Switzerland. (*Z. angew. Math. Phys.*)

Zeitschrift für angewandte Physik, Springer Verlag, Berlin W35, Reichpietschufer 20, Germany. (*Z. angew. Phys.*)

Zeitschrift für Metallkunde, Dr. Riederer-Verlag G.m.b.H., Stuttgart, Marienstrasse 80, Germany. (*Z. Metallkde*)

Zeitschrift für Meteorologie, Akademieverlag G.m.b.H., Berlin N.W.7, Schiffbauerdamm 19, Germany. (*Z. Met.*)

Zeitschrift für Naturforschung, Tübingen, Mathildenstrasse 29, Germany. (*Z. Naturf.*)

Zeitschrift für Physik, Springer Verlag, Berlin W35, Reichpietschufer 20, Germany (*Z. Phys.*)

Zhurnal eksperimentalnoi i teoreticheskoi Fiziki, Moscow, B-64, Podsoseuskii per. 21, U.S.S.R. (*Zh. eksp. teor. Fiz.*)

Zhurnal tekhnicheskoi Fiziki, Leningrad, 164, V.O., Mendeleevskaya lin., 1, U.S.S.R. (*Zh. tekh. Fiz.*)

With this Index to Abstracts and References is included a title page for inclusion with the bound volume for 1955. When binding, it is suggested that the issues be broken down and assembled in the following order:- Title page; index to editorial (from December issue); all editorial pages together, in proper sequence; all abstracts pages together, in proper sequence; Index to Abstracts. This order has been found the most convenient.

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